Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

 (Previously presented) A method of recovering metal from waste plating stream and using the recovered metal comprising:

providing a waste metal plating stream containing metal ions in an aqueous solution;

passing the waste metal plating stream containing the metal ions into an electrochemical cell assembly having an inlet for the waste metal plating stream, a plurality of alternating anodes and metallic cathodes porous to the waste metal solution and an exit from the cell:

passing the waste metal plating stream through pores of the metallic cathode;

passing an electrical current through the anodes and metallic cathodes, thereby depositing a portion of the metal ions onto the cathodes and reducing the amount of the metal ion in the solution from that in the introduced waste metal plating stream; and

using the recovered deposited metal on the metallic cathode and the metallic cathode as a source of metal to be deposited on to a substrate in a subsequent metal plating process.

 (Original) The process of claim 1 wherein the waste metal plating solution is comprised of the metal ions cadmium, cobalt, copper, lead, nickel, zinc, chromium or precious metal ions or mixtures thereof.

- (Original) The process of claim 1 wherein the waste metal plating solution is comprised of nickel metal ions.
- (Original) The process of claim 1 wherein the waste metal plating solution is comprised of copper metal ions.
- (Original) The process of claim 1 wherein the porous cathodes are comprised of sintered nickel having a porosity of 5 to 100 pores/inch (PPI).
- (Original) The process of claim 1 wherein the waste plating solution has a
 metal ion content of at least 200 g/liter.
- 7. (Original) The process of claim 1 wherein the waste solution is subjected to metal deposition wherein the solution exiting the cell assembly has a metal ion content as low as 50 g/ liter.
- 8. (Original) The process of claim 1 wherein the deposited metal on the cathodes is fractured into pieces and is used a source of metal ions in an electrochemical deposition of the metal.
- 9. (Currently Amended) The process of claim 1 wherein the waste metal plating solution is obtained from a an aqueous rinse bath formed as a result of water washing a plated metal part after the deposition of the metal plate onto a substrate.

- 10. (Original) The process of claim 9 wherein the aqueous solution exiting the electrochemical cell assembly, for removal of metal ions from the waste solution, is recycled back to the aqueous rinse bath.
- 11. (Previously presented) A method of recovering metal from waste plating stream and using the recovered metal comprising:

providing a waste metal plating stream containing metal ions in an aqueous solution;

passing the waste metal plating stream containing the metal ions into an electrochemical cell assembly having an inlet for the waste metal plating stream, a plurality of alternating anodes and metallic cathodes porous to the waste metal solution and an exit from the cell;

passing the waste metal plating stream through pores of the metallic cathode;

passing an electrical current through the anodes and metallic cathodes, thereby depositing a portion of the metal ions onto the cathodes and reducing the amount of the metal ion in the solution from that in the introduced waste metal plating stream; and

using the recovered deposited metal on the metallic cathode and the metallic cathode as a source of metal to be deposited on to a substrate in a subsequent metal plating process;

wherein the waste metal plating solution is comprised of nickel metal ions; and
wherein the porous cathodes are comprised of sintered nickel having a porosity of
5 to 100 pores/inch (PPI); and

wherein the deposited metal on the cathodes is fractured into pieces and is used a source of metal ions in an electrochemical deposition of the metal.

 (Currently Amended) A method of recovering metal from waste plating stream and using the recovered metal comprising

providing a waste metal plating stream containing metal ions in an aqueous solution;

passing the waste metal plating stream containing the metal ions into an electrochemical cell assembly having an inlet for the waste metal plating stream, a plurality of alternating anodes and metallic cathodes porous to the waste metal solution and an exit from the cell;

passing the waste metal plating stream through pores of the metallic cathode;

passing an electrical current through the anodes and metallic cathodes, thereby depositing a portion of the metal ions onto the cathodes and reducing the amount of the metal ion in the solution from that in the introduced waste metal plating stream; and

using the recovered deposited metal on the metallic cathode and the metallic cathode as a source of metal to be deposited on to a substrate in a subsequent metal plating process;

wherein a permeable ceramic diaphragm is used to separate the anodes and cathodes;

wherein the waste metal plating solution is comprised of nickel metal ions; and

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wherein the waste metal plating solution is obtained from an aqueous rinse bath formed as a result of water washing a plated metal part after the deposition of the metal plate onto a substrate;; and

wherein the aqueous solution exiting the electrochemical cell assembly, for removal of metal ions from the waste solution, is recycled back to the aqueous rinse bath.